

## First Nine Weeks

**Grade: 9**

**Subject: Pre-Algebra**

**Year: IN PROGRESS 2017-2018**

# Days	SOL	Student Essential Knowledge and Skills	Resources	Vocabulary	Bloom's
2		<p><b>Teacher/Algebra Introductions</b> Students and teachers will become acquainted with their class and the material.</p>	Textbook, Workbooks, <a href="http://www.ixl.com">www.ixl.com</a> ,		Become acquainted – L1
5	A.7	<p><b>Coordinate Plane</b> Students will represent relations in various forms, such as; mapping, table, and graphs.</p>	Textbook, workbooks	Domain, Range, Coordinates, Axis, x-intercepts, y-intercepts, origin	Represent: L2
10		<p><b>Calculator Activities</b> Students will become familiar with their calculators and all of the various functions available.</p>	TI-83 Scientific Calculator	Radicals, Square Root, Cube Root, Operations, Absolute Value (Algebra intro terms)	Become acquainted – L1
12	A.4	<p><b>Equations</b> Simplify expressions and solve equations, using the field properties of the real numbers and properties of equality to justify simplification and solution.</p> <ul style="list-style-type: none"> <li>Solve multistep linear equations in one variable.</li> </ul> <p>Confirm algebraic solutions to linear and quadratic equations, using a graphing calculator.</p>	Textbook TI-83 Calculator Workbooks IXL	Opposites, Additive Inverse, Multiplicative Inverse, Reciprocal, Distributive Property, Term, Constant, Coefficient, Like Terms, Solution of an Equation, Identity	olve – L3 Justifying – L5 Simplify – L3 Confirm – L3

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11	A.6	<b>Two-Variable Equations</b> <ul style="list-style-type: none"> <li>Students will <b>Solve</b> multistep linear equations in one variable</li> <li><b>Write</b> an equation of a line when given the graph of a line.</li> </ul>	<b>Textbook</b> <b>IXL</b> <b>Workbooks</b>		<b>Write: L6</b> <b>Solve L3</b>
1		<b>End of First Nine weeks</b>			
11	A.6	<b>Slope</b> <b>Slope</b> <ul style="list-style-type: none"> <li><b>Graph</b> linear equations and inequalities in two variables, including those that arise from a variety of real- world situations.</li> <li><b>Use</b> the parent function <math>y = x</math> and describe transformations defined by changes in the slope or y-intercept.</li> <li><b>Find</b> the slope of the line, given the equation of a linear function.</li> <li><b>Find</b> the slope of a line, given the coordinates of two points on the line.</li> <li><b>Find</b> the slope of a line, given the graph of a line.</li> <li><b>Recognize</b> and <b>describe</b> a line with a slope that is positive</li> </ul>		Slope, Parent function, Linear Parent Function, Linear Equation, Y-Intercept, Slope Intercept Form	<b>Graph</b> – L3 <b>Determining</b> - L3 <b>Described</b> - L2 <b>Writing</b> - L6 <b>Use</b> - L3 <b>Find</b> - L3 <b>Recognize</b> - L1 <b>Investigate</b> - L4

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9	A.5	<p><b><u>Inequalities</u></b></p> <ul style="list-style-type: none"> <li>• <b>Solve</b> multistep linear inequalities in one variable.</li> </ul>	Textbook Ch. 3 p. 161	Equivalent inequalities, Linear Inequality, Solution of Inequality	<b>Solve</b> -L3 <b>Justifying</b> - L5
7	A.5	<p><b><u>Systems of Inequalities</u></b></p> <ul style="list-style-type: none"> <li>• <b>Solve</b> systems of linear inequalities algebraically and graphically.</li> </ul>	Textbook Ch. 6 p. 396	System of Linear Inequality, Solution of Inequality	<b>Solve</b> - L3
15	A.2	<p><b><u>Polynomials</u></b></p> <ul style="list-style-type: none"> <li>• <b>Model</b> sums, differences, products, and quotients of polynomials with concrete objects and their related pictorial representations.</li> <li>• <b>Relate</b> concrete and pictorial manipulations that model polynomial operations to their corresponding symbolic representations.</li> <li>• <b>Find</b> sums and differences of polynomials.</li> </ul> <p><b>Find</b> products of polynomials. The factors will have no more than five total terms (i.e. <math>(4x+2)(3x+5)</math> represents four terms and <math>(x+1)(2x^2+x+3)</math> represents five terms)</p>	Textbook Chapter 8  IXL Workbooks	Monomial, Degree of a Monomial, Polynomial, Standard Form of a Polynomial, Degree of a Polynomial, Binomial, Trinomial,	
2		<b><u>Review for Final</u></b>			
1		<b><u>End of 2<sup>nd</sup> nine weeks</u></b> Students will complete final for course.			